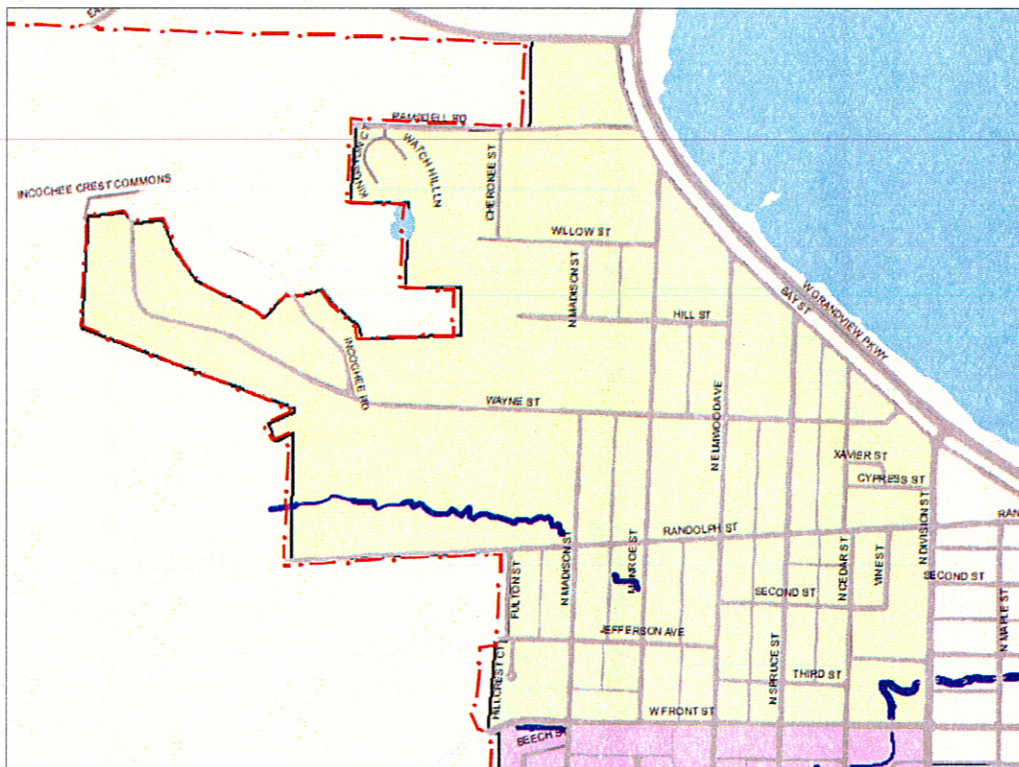# Slabtown Neighborhood
Speeds & Classifications

The following documents provide speed and classification results from both radar recorders and automatic road tube traffic data recorders. Speeds and classifications were collected in various locations in the Slabtown Neighborhood during 2012 and 2013. A summary of the data collected from each location as well as sample data sheets for both speed and classification are also included.

Speed & Volume Data

The speed and volume collecting devices used in studying the Slabtown neighborhood were automatic road tube traffic data recorders and radar recorders from Jamar Technologies Inc.

The automatic road tube traffic data recorders are the common, widely used traffic counters that count vehicles by setting a tube across the road. Each time a vehicle passes over the tube, one count is recorded. These counters can also be used to record speed, class, and gap by placing multiple tubes across the road.

Unlike the automatic traffic data recorders, the radar recorders do not use tubes, therefore they mount directly to a utility pole or tree approximately five to six feet above street level. Placed at a 45 degree angle facing either the approach or recede lane, the radar recorder automatically records the speed of the vehicle as it passes across its sensor. This device provides vehicle speed data accurate to +/- 1 MPH. In addition the radar recorder can also provide volume data.

Data retrieval for both traffic devices is done by using the TRAXPro computer software. The software gathers data for each lane of traffic; one lane north (or east) bound and one lane south (or west) bound. The speeds of each vehicle are recorded in the device and then compiled into TRAXPro where both lanes can be combined into one report or can be kept separate to analyze the data based on direction. The software can then divide the speeds into groups with 2 to 5 speeds per group, whichever matches the study at hand. The report chosen for the Slabtown neighborhood started with a group containing 1-15 MPH and each successive group with 5 MPH increments. Each group shows how many vehicles were within that specific range of speed and at what times.

Classification Data

As mentioned above, the automatic road tube traffic data recorders can also obtain classification data. Classifications are categories in which each vehicle fall into. The system used is the FHWA Type F Vehicle Classification Scheme:

Class 1 – Motorcycles
Class 2 – Passenger Cars
Class 3 – Pickups, Vans, and other 2-Axle, 4-Tire Single Unit Vehicles
Class 4 – Buses
Class 5 – Two-Axel, Six-Tire Single Unit Trucks (most delivery trucks)
Class 6 – Three-Axle Single Unit Trucks (semi-trucks)
Class 7 – Four or More Axle Single Unit Trucks
Class 8 – Four or Less Axle Single Trailer Trucks
Class 9 – Five-Axle Single Trailer Trucks
Class 10 – Six or More Axle Single Trailer Trucks
Class 11 – Five or Less Axle Multi-Trailer Trucks
Class 12 – Six-Axle Multi-Trailer Trucks
Class 13 – Seven or More Axle Multi-Trailer Trucks
Class 14 – Unclassified Vehicles (bicycles, vehicles parked on tubes, vehicles crossing over tubes at same time, other unknown vehicles)

Speed Summary of Locations 1-9 in Slabtown Neighborhood

2013

1. Monroe, N of Willow (700 block)
   Speed Limit: 25 MPH
   Average Speed: 22 MPH
   67.8% ≤ 25 MPH
   95% ≤ 30 MPH
   24-hr ADT weekday: 1,863 vehicles
   24-hr ADT weekend: 1,232 vehicles
   15th Percentile: 13 MPH
   50th Percentile: 22 MPH
   85th Percentile: 27 MPH
   95th Percentile: 30 MPH

8. W Front, W of Monroe (1100 block)
   Speed Limit: 25 MPH
   Average Speed: 25 MPH
   34.3% ≤ 25 MPH
   81.5% ≤ 30 MPH
   24-hr ADT weekday: 14,287 vehicles
   24-hr ADT weekend: 7,380 vehicles
   15th Percentile: 17 MPH
   50th Percentile: 26 MPH
   85th Percentile: 31 MPH
   95th Percentile: 34 MPH

9. W Front, W of Spruce (900 block)
   Speed Limit: 25 MPH
   Average Speed: 24 MPH
   52.9% ≤ 25 MPH
   90.1% ≤ 30 MPH
   24-hr ADT weekday: 13,089 vehicles
   24-hr ADT weekend: 7,567 vehicles
   15th Percentile: 18 MPH
   50th Percentile: 24 MPH
   85th Percentile: 29 MPH
   95th Percentile: 32 MPH

2012

2. Wayne, W of Incochee (1600 block)
   Speed Limit: 25 MPH
   Average Speed: 27 MPH
   29.2% ≤ 25 MPH
   62% ≤ 30 MPH
   24-hr ADT weekday: 346 vehicles
   15th Percentile: 17 MPH
   50th Percentile: 27 MPH
   85th Percentile: 34 MPH
   95th Percentile: 39 MPH

3. Wayne, W of Madison (1200 block)
   Speed Limit: 25 MPH
   Average Speed: 25 MPH
   45.4% ≤ 25 MPH
   78.1% ≤ 30 MPH
   24-hr ADT weekday: 754 vehicles
   24-hr ADT weekend: 697 vehicles
   15th Percentile: 16 MPH
   50th Percentile: 25 MPH
   85th Percentile: 31 MPH
   95th Percentile: 35 MPH

4. N Elmwood, N of Wayne (500 block)
   Speed Limit: 25 MPH
   Average Speed: 23 MPH
   47% ≤ 25 MPH
   84.1% ≤ 30 MPH
   24-hr ADT weekday: 738 vehicles
   24-hr ADT weekend: 583 vehicles
   15th Percentile: 13 MPH
   50th Percentile: 24 MPH
   85th Percentile: 30 MPH
   95th Percentile: 33 MPH

5. Cypress, E of Xavier – dirt (700 block)
   Speed Limit: 25 MPH
   Average Speed: 11 MPH
   98.1% ≤ 25 MPH
   98.6% ≤ 30 MPH
   24-hr ADT weekday: 217 vehicles
   15th Percentile: 4 MPH
   50th Percentile: 9 MPH
   85th Percentile: 15 MPH
   95th Percentile: 19 MPH

6. Xavier – dirt (700 block)
   Speed Limit: 25 MPH
   Average Speed: 9 MPH
   100% ≤ 25 MPH
   0% ≤ 30 MPH
   24-hr ADT weekday: 62 vehicles
   15th Percentile: 4 MPH
   50th Percentile: 8 MPH
   85th Percentile: 12 MPH
   95th Percentile: 15 MPH

7. N Elmwood, N of Jefferson (200 block)
   Speed Limit: 25 MPH
   Average Speed: 23 MPH
   52.3% ≤ 25 MPH
   87.2% ≤ 30 MPH
   24-hr ADT weekday: 1,328 vehicles
   24-hr ADT weekend: 1,042 vehicles
   15th Percentile: 14 MPH
   50th Percentile: 23 MPH
   85th Percentile: 29 MPH
   95th Percentile: 33 MPH

Classification Summary of Locations 10-14 in Slabtown Neighborhood

2012

10. N Madison, N of W Front (100 block)
    24-hr ADT weekday: 1,277 vehicles
    Class 1-5: 94.4%
    Class 6-13: 0.7%
    Class 14: 5.0%

11. Monroe, N of Jefferson (200 block)
    24-hr ADT weekday: 1,460 vehicles
    Class 1-5: 97.8%
    Class 6 or higher: 0.9%
    Class 14: 1.2%

12. N Elmwood, N of Jefferson (200 block)
    24-hr ADT weekday: 1,153 vehicles
    Class 1-5: 90.3%
    Class 6-13: 2.1%
    Class 14: 7.6%

13. N Spruce, N of W Front (100 block)
    24-hr ADT weekday: 332 vehicles
    Class 1-5: 62.9%
    Class 6-13: 2.4%
    Class 14: 34.6%

14. N Cedar, N of W Front (100 block)
    24-hr ADT weekday: 1,229 vehicles
    Class 1-5: 59.7%
    Class 6-13: 3.7%
    Class 14: 36.5%

Speed Locations

Classification Locations